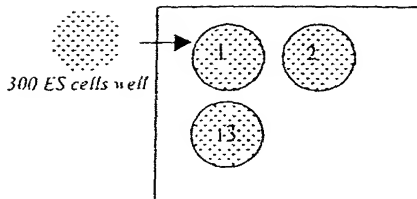
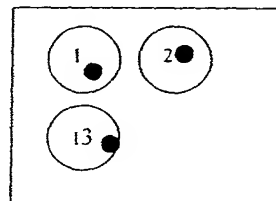


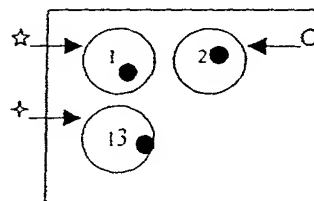
**Day 0** R1 ES cells (300 cells/well)  
in differentiating medium are  
plated on 96 well non-coated plates



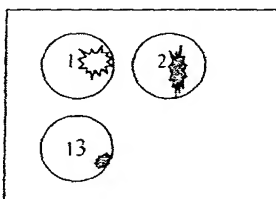
Formation of embryo-like aggregate (7 d)



**Day 7** Add chemical compounds (#1 to #96) into each well.



Induce further differentiation (7~14 d)



**Day 14** Extract RNA on the plate, RT-PCR on the plate

**Day 21**

Evaluate the effects of the drugs (#1-96) on  
mRNA expression of tissue-specific genes (e.g.  
albumin mRNA for hepatocyte differentiation).

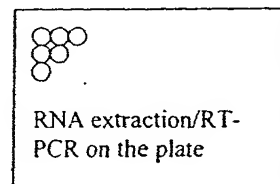


FIG. 1

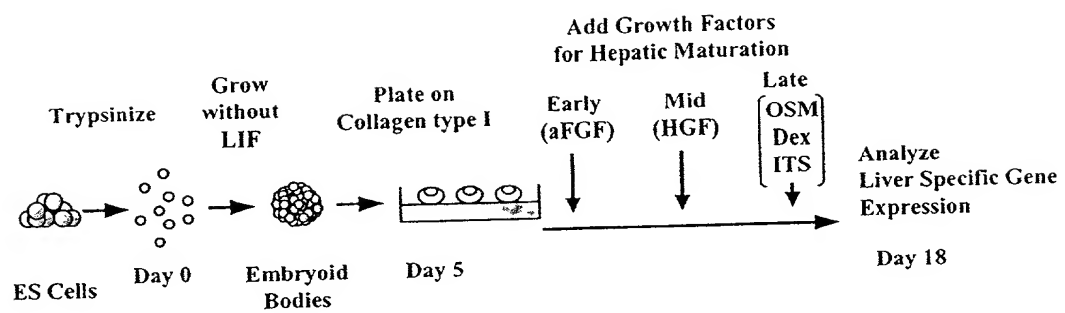


FIG. 2

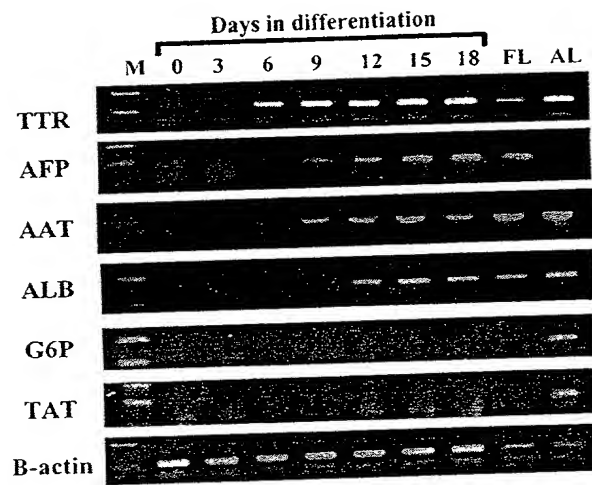


FIG. 3

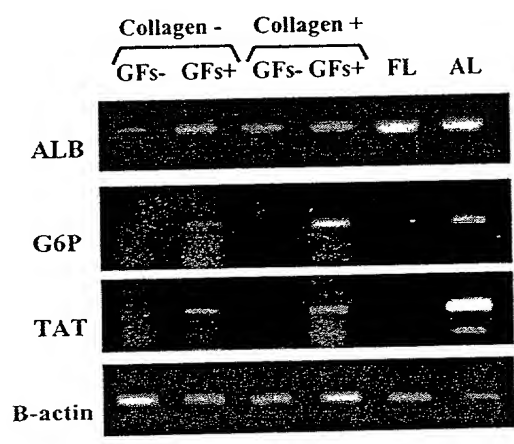


FIG. 4

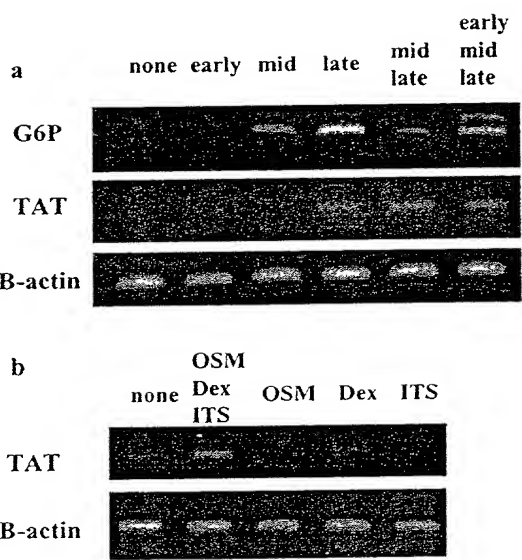


FIG. 5

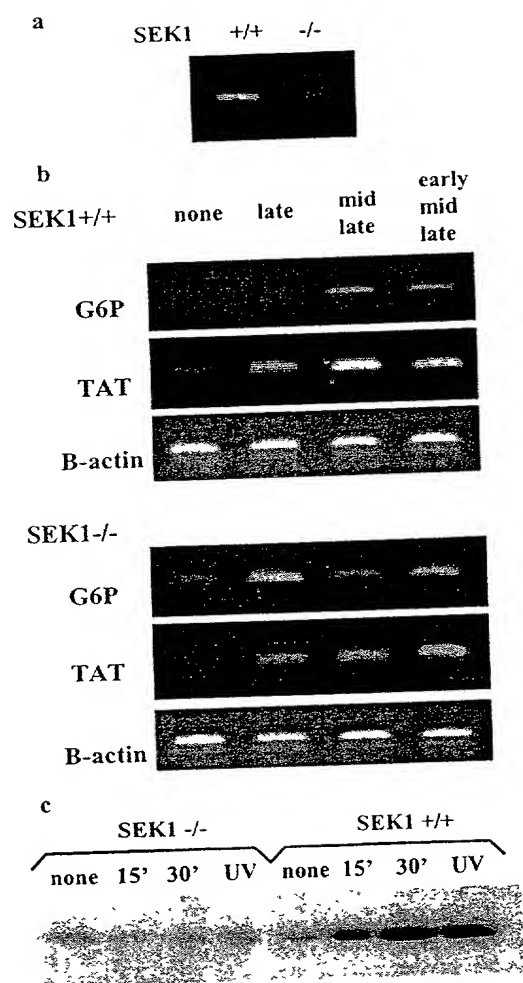


FIG. 6

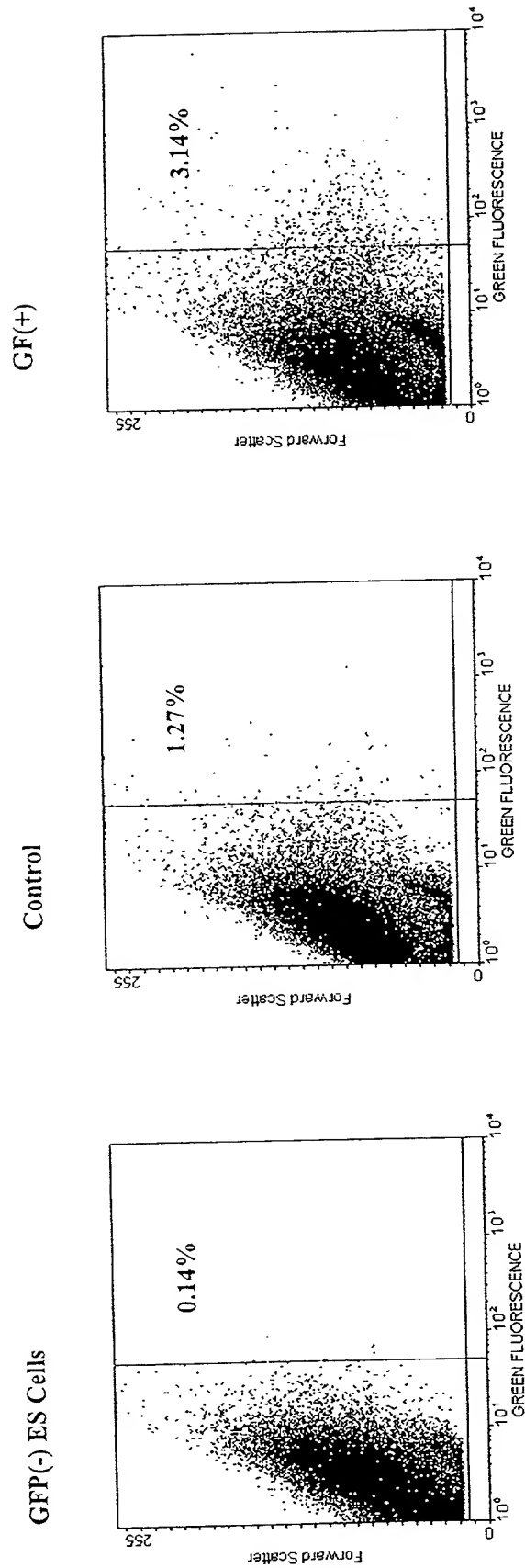


FIG. 7